

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-16 (Canceled)

17. (Previously Presented) ~~The A corrosion resistant member according to claim 16 comprising a  $Y_2O_3$  sintered material that includes 99.9% by weight or more Y in terms of  $Y_2O_3$ , wherein~~

~~said  $Y_2O_3$  sintered material comprises at least metal element of AE, wherein AE is a group II element of the periodic table, and~~

~~wherein a difference in crystal grain size between the surface and the inside region of said  $Y_2O_3$  sintered material is not larger than 30  $\mu m$ .~~

18. (Previously Presented) The corrosion resistant member according to claim 17, wherein said  $Y_2O_3$  sintered material further comprises any one of Si, Fe and Al.

19. (Currently amended) The corrosion resistant member according to claim ~~16~~ 17, wherein said  $Y_2O_3$  sintered material further comprises any of a group of metallic elements consisting of Si, Fe, Al and AE (these metallic elements will hereinafter be collectively referred to as metal elements M), in concentrations of 300 ppm or less for Si in terms of  $SiO_2$ , 50 ppm or less for Fe in terms of  $Fe_2O_3$ , 100 ppm or less Al in terms of  $Al_2O_3$  and 350 ppm or less AE, wherein AE is a group II element of the periodic table, in terms of AEO, wherein AEO is a compound containing the AE and O.

20. (Previously Presented) The corrosion resistant member according to claim 19, wherein the content ratio of any of the metal elements M contained at and near the surface to that contained deep inside of said  $Y_2O_3$  sintered material is in a range from 0.2 to 5.

21. (Currently amended) The corrosion resistant member according to claim ~~16~~ 17, wherein said  $Y_2O_3$  sintered material shows dielectric loss tangent of  $2 \times 10^{-3}$  or less in a frequency range from 10 MHz to 5 GHz.

22. (Currently amended) The corrosion resistant member according to claim ~~16~~ 17, wherein the carbon content in said  $Y_2O_3$  sintered material is 100 ppm by weight or less.

23. (Currently amended) The corrosion resistant member according to claim ~~16~~ 17, wherein said  $Y_2O_3$  sintered material has void ratio of 5% or less.

24. (Currently amended) The corrosion resistant member according to claim ~~16~~ 17, wherein said  $Y_2O_3$  sintered material has density of  $4.8 \text{ g/cm}^3$  or higher.

25-27. (Canceled).